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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/004,350	10/25/2001	Ryong Ryoo	HYLEE56.001AUS	3783
20995 7	590 09/29/2003			
	ARTENS OLSON &	BEAR LLP	EXAMI	NER
2040 MAIN ST FOURTEENT	H FLOOR		HENDRICKSON, STUART L	
IRVINE, CA	92614		ART UNIT	PAPER NUMBER
			1754	
			DATE MAILED: 09/29/2003	8

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s) V	
	4350	Applicatin(s) Ky 60	
Office Action Summary	Examinar US	Group Art Unit	
-The MAILING DATE of this communication appear	s on the cover sheet b	eneath the correspondence addi	esș—
Period for Reply	2	,	
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET T OF THIS COMMUNICATION.	O EXPIRE	MONTH(S) FROM THE MAILI	ng date
 Extensions of time may be available under the provisions of 37 CFR from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reflection of the second of the specified above, such period shall, by defaute a Failure to reply within the set or extended period for reply will, by statement of the second of	eply within the statutory min tt, expire SIX (6) MONTHS fr tute, cause the application	nimum of thirty (30) days will be consider om the mailing date of this communication to become ABANDONED (35 U.S.C. § 13	ed timely. on. 3).
Status all \(\sqrt{2}			
Responsive to communication(s) filed on	· · · · · · · · · · · · · · · · · · ·		•
☐ This action is FINAL.			
☐ Since this application is in condition for allowance excep accordance with the practice under Ex parte Quayle, 193			sed in
Disposition of Claims	·		•
☑ Claim(s) Of the above claim(s)	is/are pending in the applica	ation.	
Of the above claim(s)	1	is/are withdrawn from consi	deration.
□ Claim(s)————————————————————————————————————		is/are allowed.	
[S] Claim(s)	is/are rejected.		
☐ Claim(s) ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐		is/are objected to.	
Claim(s)		are subject to restriction or	election
Application Papers		requirement	
· · · · · · · · · · · · · · · · · · ·		☐ disapproved.	•
☐ The proposed drawing correction, filed on	• •		
☐ The drawing(s) filed on is/are object	• •		
☐ The drawing(s) filed on is/are objected to by the Examiner.	• •		
☐ The drawing(s) filed on is/are object	• •		
 □ The drawing(s) filed on is/are objected. □ The specification is objected to by the Examiner. □ The oath or declaration is objected to by the Examiner. 	• •		
 ☐ The drawing(s) filed on is/are objected. ☐ The specification is objected to by the Examiner. ☐ The oath or declaration is objected to by the Examiner. 	cted to by the Examiner		
☐ The drawing(s) filed on is/are objected. ☐ The specification is objected to by the Examiner. ☐ The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. § 119 (a)–(d)	cted to by the Examiner		
 ☐ The drawing(s) filed on is/are objected. ☐ The specification is objected to by the Examiner. ☐ The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. § 119 (a)–(d) ☐ Acknowledgement is made of a claim for foreign priority in the content of the con	cted to by the Examiner		
 ☐ The drawing(s) filed on is/are objected. ☐ The specification is objected to by the Examiner. ☐ The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. § 119 (a)-(d) ☐ Acknowledgement is made of a claim for foreign priority in	cted to by the Examiner under 35 U.S.C. § 119 (a received.	ı)—(d).	
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 □ The drawing(s) filed on	under 35 U.S.C. § 119 (a received. received in Application N res have been received at Bureau (PCT Rule 17.2	n)—(d). No	
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 □ The drawing(s) filed on	cted to by the Examiner under 35 U.S.C. § 119 (a received. received in Application N rs have been received al Bureau (PCT Rule 17.2 b)(s). 3	n)–(d). No P(a)) Interview Summary, PTO–413	n, PTO-15

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-10, 16, 18-26 are rejected under 35 U.S.C. 102(b) as being anticipated by Lee et al.

Lee teaches on pg. 2177 impregnating a molecular sieve with phenol-formaldehyde, polymerizing, carbonizing and etching the template to create a carbon with uniform mesopores. No difference is seen in the product; compare to specification fig. 7.

Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lee et al., alone or in view of applicant's specification.

Lee does not teach the claimed supports, however applicant appears to admit that they are old and known porous inorganic materials. Using them in place of MCM-48 is an obvious expedient to make a carbon material of a desired structure and/or porosity, based upon the structure of the template.

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Claims 12, 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee et al. taken with Lester.

Lee does not teach carbohydrates, however Lester does in column 3-4 and 6 in a similar scheme. Using the compounds of Lester in the process of Lee is an obvious expedient to provide a carbon source for making a carbonaceous body.

Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lee et al. taken with Hucke.

Lee does not teach the particular sources, but Hucke does in column 5. Using the compounds of Hucke in the process of Lee is an obvious expedient to provide a carbon source for making a carbonaceous body. The examiner takes Official notice that the other species are old and known are carbonizable compounds, and thus no patentability is seen in claim 17.

Claims 1-6, 8-10, 12-15, 18-26 are rejected under 35 U.S.C. 102(b) as being anticipated by Ryoo et al.

The article appears to be a journal equivalent of the present specification.

Claims 1-6, 8-10, 12-15, 18-26 are rejected under 35 U.S.C. 102(a) as being anticipated by Jun et al.

The article appears to be a journal equivalent of the present specification.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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Claims 25 and 26 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description or enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

There is no description of how one can make a the structure recited in claims 25 and 26. There is no evidence that these structures are present, particularly since decomposition of organic material is not recognized as a way to make a carbon nanotube.

Any inquiry concerning this communication should be directed to examiner Hendrickson at telephone number (703) 308-2539.

Stuart Hendrickson examiner Art Unit 1754